Corbett maths

Trigonometry

Video 329, 330, 331 on www.corbettmaths.com

Examples

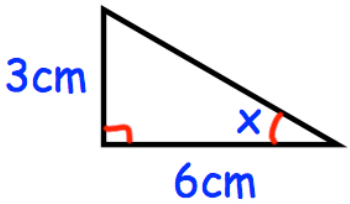
Workout

Click here

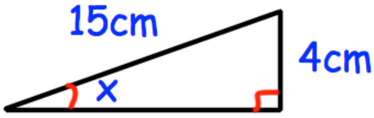
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Question 1: Find the size of the missing angles in the triangles below.

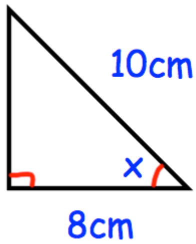
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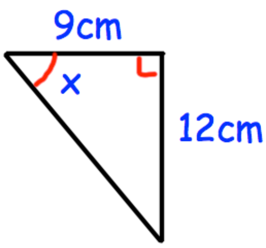
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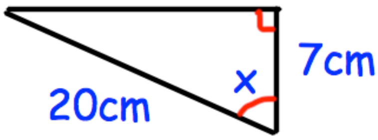
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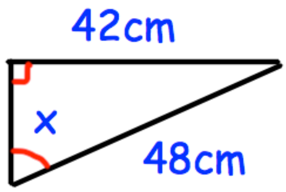
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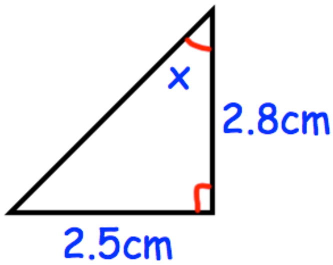
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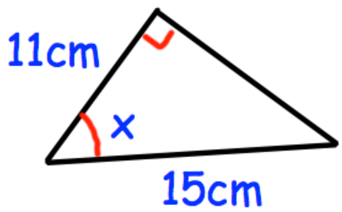
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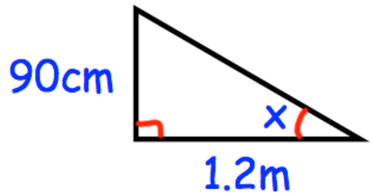
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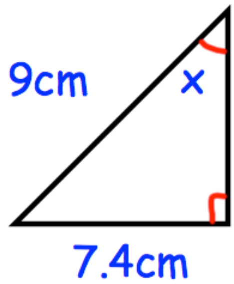
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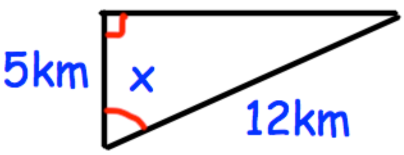
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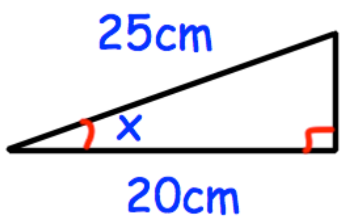
(j)



(k)



(l)



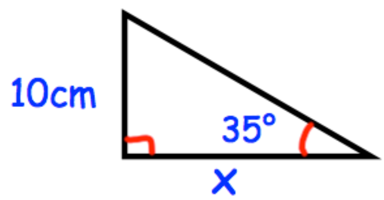
Corbett maths

Trigonometry

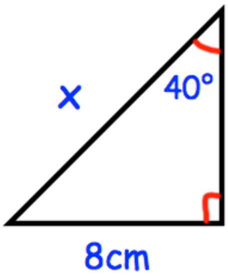
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Question 2: Find the lengths of the sides labelled x below.

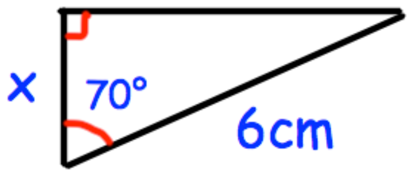
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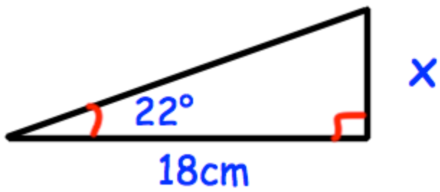
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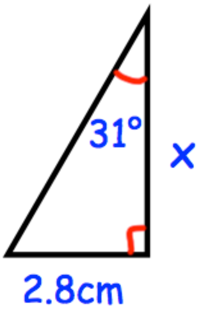
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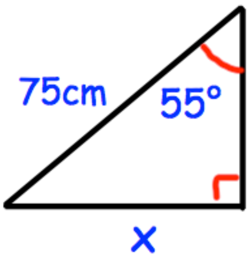
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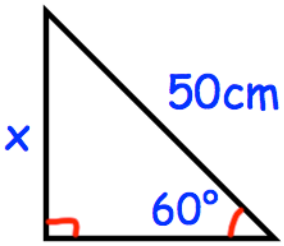
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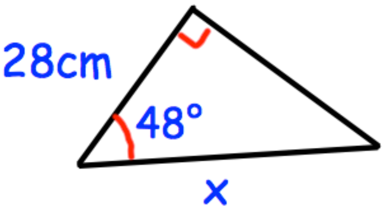
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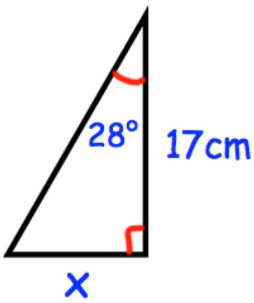
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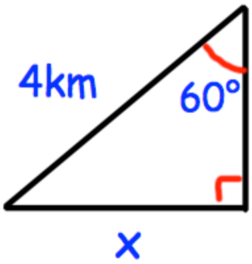
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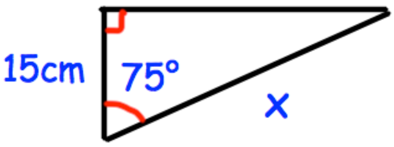
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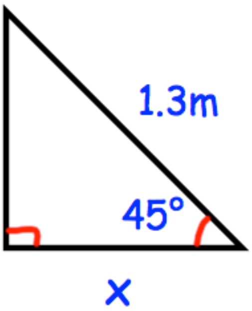
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(k)



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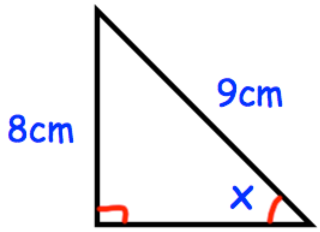


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Question 3: Find the size of the missing angles/sides labelled x below.

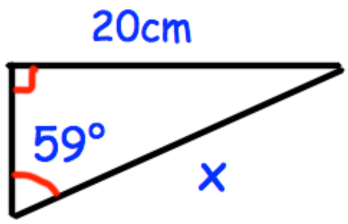
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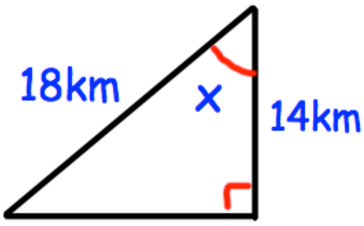
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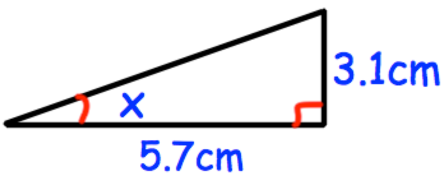
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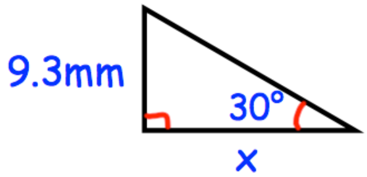
(d)



(e)



(f)



Apply

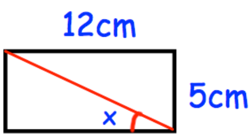
In each question, draw a diagram unless it has been given.

Question 1: A 4 metre long ladder is placed against a wall. The angle between the ladder and the ground is 75°. How far up the wall does the ladder reach?

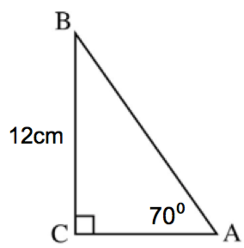
Question 2: A 5 metre long ladder is placed against a wall. It reaches 4.3 metres up the wall. What is the angle between the ladder and the ground?

Question 3: A ladder is placed against a wall.
The base of the ladder is 4 foot from the bottom of the wall.
The angle between the ladder and the ground is 80°.
What is the length of the ladder?

Question 4: A rectangle is 12cm long and 5cm wide. Find the size of the angle marked x.



Question 5: (a) Find the length of AC.
(b) Find the length of AB.
(c) Find the perimeter of triangle ABC.
(d) Find the area of triangle ABC.



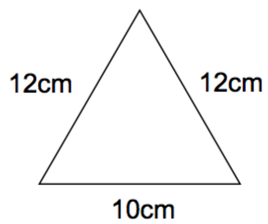
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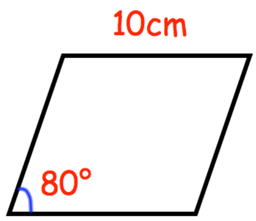
Question 6: A helicopter leaves A and flies 40 miles due east. Then the helicopter flies 10 miles due south and arrives at B. Work out the bearing of B from A.

Question 7: A boat leaves a port and sails 55km due west and then 30km due north and arrives at an oil rig. What is the bearing of the oil rig from the port?

Question 8: Shown is an isosceles triangle. Calculate its area.

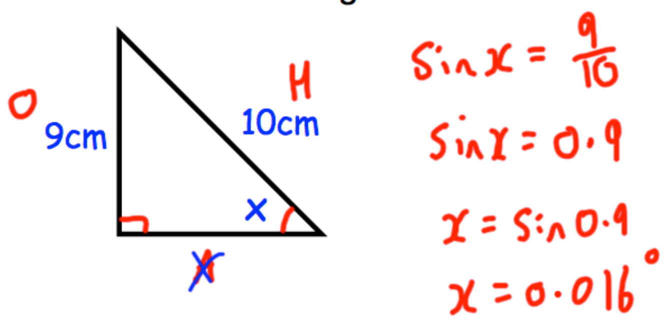


Question 9: Shown is a rhombus of side length 10cm.
Calculate its area.

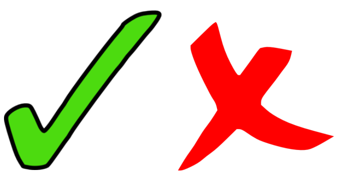


Question 10: Can you spot any mistakes in the question below?

Find the size of the angle x.



Answers



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